ATTORNEY DOCKET NO. 21127.0008U1 PATENT

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently Amended) Dermal application system, which is a self-adhesive matrix system, characterised in that the polymer matrix contains an ALA derivative, wherein the ALA derivative is a crystallinic aminolaevulinic acid salt or a crystallinic aminolaevulinic acid ester (ALA derivative), wherein the crystals of the ALA derivative have a size of less than approximately 200 μm.
- (Original) Application system according to claim 1, characterised in that the polymer system is water-permeable.
- 3. (Original) Application system according to claims 1 and 2, characterised in that the polymer matrix is selected from polymers from the group consisting of
 - a) acrylates,
 - b) silicon polymers and
 - c) polyisobutylene.
- 4. (Original) Application system according to claims 1 to 3, characterised in that the crystals of the ALA derivative have a (mean) diameter of 30 µm to 190 µm.
- (Original) Application system according to claim 4, characterised in that the crystals of the ALA derivative have a (mean) diameter of 90 µm to 160 µm.
- 6. (Original) Application system according to claims 1 to 5, characterised in that the aminolaevulinic acid derivative is present in a concentration of 1 to 50 wt. % relative to the finished polymer matrix.

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- 7. (Original) Application system according to claims 1 to 6, characterised in that the crystals of the ALA derivative have a diameter of 30 to 190 µm and the polymer matrix consists of Eudragit NE (NE) and acetyl tributyl citrate (ATBC) in the weight ratio NE/ATBC of 1:0.5 to 1:2.5, wherein the aminolaevulinic acid derivative is present in a concentration of 1 to 50 wt. % relative to the finished polymer matrix.
- (Original) Application system according to claim 7, characterised in that the crystals of the ALA derivative have a diameter of 90 to 160 µm.
- 9. (Original) Application system according to claims 1 to 8, characterised in that it releases at least 30% of the ALA derivative within 30 minutes.
- 10. (Original) Application system according to claims 1 to 9, characterised in that the ALA derivative is a compound of the general formula R^2_2N -CH2COCH2COOR 1 , wherein R^1 is an alkyl residue, which is optionally substituted by a hydroxy, alkoxy, alkyloxy, alkoxy, amino, aryl, oxo, or fluoro group and optionally interrupted by oxygen, nitrogen, sulfur, or phosphorous atoms, and each of R^2 independently from one another represents a hydrogen atom or a group like R^1 , or a salt thereof.
- 11. (Original) Application system according to claim 10, characterised in that the aryl group is a phenyl residue or a monocyclic 5 to 7 membered heteroaromatic residue.
- 12. (Original) Application system according to claim 10 or 11, characterised in that R.sup.1 is an unsubstituted alkyl group.
- 13. (Original) Application system according to claims 10 to 12, characterised in that the alkyl group has 1 to 10 carbon atoms.
- 14. (Original) Application system according to claims 10 to 13, characterised in that the ALA derivative is 5-amino levulinic acid methyl ester, 5-amino levulinic acid ethyl ester, 5-amino levulinic acid pentyl ester, 5-amino levulinic acid pentyl ester.

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- 5-amino levulinic acid hexyl ester, 5-amino levulinic acid heptyl ester, 5-amino levulinic acid octyl ester, or a pharmaceutically acceptable salt thereof.
- 15. (Original) Application system according to claims 10 to 14, characterised in that the ALA derivative is a mixture of different ALA derivatives.
- 16. (Original) Application system according to claims 1 to 15, characterised in that it further contains crystallinic aminolevulinic acid (ALA).
- 17. (Original) Application system according to claim 16, characterised in that the ALA crystals have a (mean) diameter of 30 to 190 μ m.
- 18. (Original) Application system according to claim 17, characterised in that the ALA crystals have a (mean) diameter of 90 µm to 160 µm.
- 19. (Original) Method for preparation of the application system according to claims 1 to 18, characterised in that freeze-dried Eudragit NE (NE) with acetyl tributyl citrate (ATBC) is dissolved in acetone, in the NE/ATBC ratio of 1:0.5 to 1:2.5, after which ground ALA derivative in the particle size range of less than approximately 200 μ m is dispersed in the acetone solution and the dispersion thus obtained is drawn to produce a thin film on a cover foil, and dried for 45 minutes at 60°C.
- 20. (Original) Method according to claim 19, characterised in that a mixture of different ALA derivatives, or a mixture of one or several ALA derivatives with ALA, is used instead of one ALA derivative.
- 21. (Original) Use of an application system according to claims 1 to 18 in photodynamic therapy and/or diagnosis of pre-cancerogenic and carcinogenic lesions of the skin.
- 22. (Original) Use of an application system according to claims 1 to 21 in photodynamic therapy and/or diagnosis of basaliomas.